



Connecticut Climate Change



Greenhouse Gas Reporting Requirements in CT

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October 13, 2005



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Drivers for GHG Reporting in CT

- NEG/ECP Climate Change Action Plan calls for the development of a standardized regional greenhouse gas (GHG) registry
- CGS 22a-200b (and PA 04-252) requires:
 - “top-down” statewide inventory, updated every 3 years
 - “bottom-up” emissions data required for certain source categories on an annual basis



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Top-down statewide GHG inventory

- Current inventory covers emissions for 1990-2000
- First update due by July 1, 2006
- NESCAUM will likely be compiling updated inventories for all member states using EPA inventory tool
- State-specific input will be needed by NESCAUM to replace questionable default data



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Bottom-up emissions data reporting

- First reports due by April 15, 2006 (for CY 2005 data)
- Initially focusing on direct GHG emissions from units at Title V sources
 - Approx. 1000 “pieces” in 2004 Title V inventory:
600 combustion + 400 process
- In subsequent years, DEP can determine whether other types of GHG emissions should be added to the annual reporting requirements
- Reporting of all 6 GHGs required
 - CO₂, CH₄, N₂O, HFCs, PFCs, SF₆



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Types of reportable GHG emissions

- Scope 1: direct GHG emissions
 - **Generation of electricity, heat or steam**
 - **Physical or chemical processing**
 - Transportation of materials, products, waste & employees
 - Fugitive emissions
- Scope 2: Energy indirect emissions
 - Emissions associated with energy purchases (electricity or steam)
- Scope 3: other indirect emissions
 - Emissions associated with leased mobile fleets, purchase of materials, use of sold products, etc



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Collection of GHG data for Title V units

- CO₂, N₂O and CH₄ emissions from combustion sources can be calculated using fuel consumption data already collected in the annual emissions statement
- Still need to determine the universe of Title V units that emit PFCs, HFCs and/or SF₆
 - If needed, modify emissions statement form to collect any additional data that might be needed to calculate PFCs, HFCs and SF₆
- Calculate GHG emissions using a methodology consistent with regional standards
- Store GHG emissions in a database and upload to a regional registry



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Status of RGGR



- The Regional Greenhouse Gas Registry (RGGR) is being designed as a voluntary registry that would also accommodate data collected from mandatory state programs
- Reporting standards based on “The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard” (WRI / WBCSD document)
- When RGGI is implemented, RGGR can be updated to handle the emissions and allowances tracking needs of this CO₂ cap & trade program



GHG Calculation Guidance

- The Greenhouse Gas Protocol has calculation tools available: <http://www.ghgprotocol.org>
- NESCAUM states are working with WRI to develop a modified version of the GHG Protocol tool that will utilize specified factors (heat content, emissions)
- EPA's Climate Leaders Program also has useful guidance materials available:
<http://www.epa.gov/climateleaders/resources/index.html>

